

INTERNATIONAL SEARCH REPORT

Intern I Application No
PCT/EP2004/052679

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C10G2/00 B65D90/44 F25J3/02 F25J3/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 B65D C10G F25J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2002/128332 A1 (BUETZOW MARCH R ET AL) 12 September 2002 (2002-09-12) claims 1,12	1-7
Y	DE 21 48 326 A (KONGSBERG VAPENFAB AS) 6 April 1972 (1972-04-06) page 2, paragraph 2	1-7
A	US 6 596 781 B1 (SCHINSKI WILLIAM L) 22 July 2003 (2003-07-22) claims 1,4; figure 1	1-7
A	GB 371 021 A (WALTER JOHN WILLENBORG) 13 April 1932 (1932-04-13) column 1, paragraph 2 column 2, paragraph 2	7
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Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

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Date of the actual completion of the international search

31 January 2005

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PCT/EP2004/052679

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 02/070630 A (GERMAINE GILBERT ROBERT BERNAR ; WEDLOCK DAVID JOHN (GB); SHELL INT RE) 12 September 2002 (2002-09-12) cited in the application page 8, last paragraph - page 9, paragraph 1	1-7
A	EP 0 930 268 A (AIR PROD & CHEM) 21 July 1999 (1999-07-21) claims 1-7	1

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/052679

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2002128332 A1	12-09-2002	US 6518321 B1 BR 0213396 A EP 1444182 A1 WO 03042140 A1 AU 778673 B2 AU 8731601 A GB 2371807 A ,B GB 2386607 A ,B JP 2004519537 T NL 1019329 A1 WO 02066577 A2 ZA 200109185 A	11-02-2003 11-01-2005 11-08-2004 22-05-2003 16-12-2004 09-05-2002 07-08-2002 24-09-2003 02-07-2004 14-05-2002 29-08-2002 18-06-2002
DE 2148326 A	06-04-1972	NO 127908 B DE 2148326 A1 GB 1302678 A JP 54036398 B SE 377090 B SU 618022 A3 US 3776164 A	03-09-1973 06-04-1972 10-01-1973 08-11-1979 23-06-1975 30-07-1978 04-12-1973
US 6596781 B1	22-07-2003	WO 03093396 A2	13-11-2003
GB 371021 A	13-04-1932	NONE	
WO 02070630 A	12-09-2002	AT 277993 T BR 0207091 A BR 0207092 A BR 0207890 A BR 0207891 A BR 0207894 A CA 2437858 A1 CA 2437862 A1 CA 2440048 A1 CA 2440053 A1 CA 2440071 A1 DE 60201421 D1 WO 02064711 A1 WO 02064710 A2 WO 02070628 A2 WO 02070629 A1 WO 02070630 A1 WO 02070636 A1 EP 1366138 A1 EP 1370633 A1 EP 1412459 A2 EP 1366135 A1 EP 1366136 A1 EP 1368446 A2 JP 2004521976 T JP 2004521977 T JP 2004536894 T JP 2004528426 T JP 2004526831 T JP 2004522848 T MX PA03007088 A MX PA03007160 A MX PA03007980 A	15-10-2004 20-01-2004 20-01-2004 23-03-2004 23-03-2004 22-06-2004 22-08-2002 22-08-2002 12-09-2002 12-09-2002 12-09-2002 04-11-2004 22-08-2002 22-08-2002 12-09-2002 12-09-2002 12-09-2002 03-12-2003 17-12-2003 28-04-2004 03-12-2003 03-12-2003 10-12-2003 22-07-2004 22-07-2004 09-12-2004 16-09-2004 02-09-2004 29-07-2004 18-11-2003 18-11-2003 04-12-2003

INTERNATIONAL SEARCH REPORT

Information on patent family members

Intern Application No

PCT/EP2004/052679

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 02070630	A	MX PA03007983 A	04-12-2003
		MX PA03007991 A	04-12-2003
		NO 20033559 A	10-10-2003
		NO 20033902 A	04-11-2003
		NO 20033903 A	04-11-2003
		NO 20033905 A	04-11-2003
		US 2004118744 A1	24-06-2004
		US 2004077505 A1	22-04-2004
		US 2004074810 A1	22-04-2004
		US 2004099571 A1	27-05-2004
		US 2004079675 A1	29-04-2004
		US 2004045868 A1	11-03-2004
		ZA 200306767 A	12-05-2004
		ZA 200306841 A	18-06-2004
EP 0930268	A	21-07-1999	
		AU 713742 B2	09-12-1999
		AU 1209699 A	12-08-1999
		DE 69913213 D1	15-01-2004
		DE 69913213 T2	04-11-2004
		EP 0930268 A2	21-07-1999
		NO 990230 A	21-07-1999
		US 6117916 A	12-09-2000